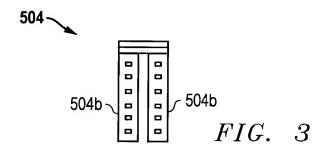


FIG. 1A



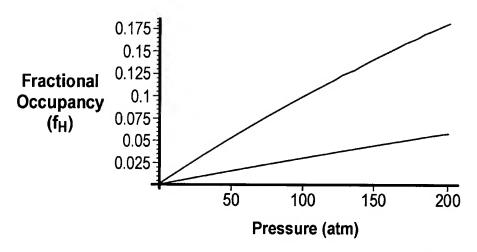
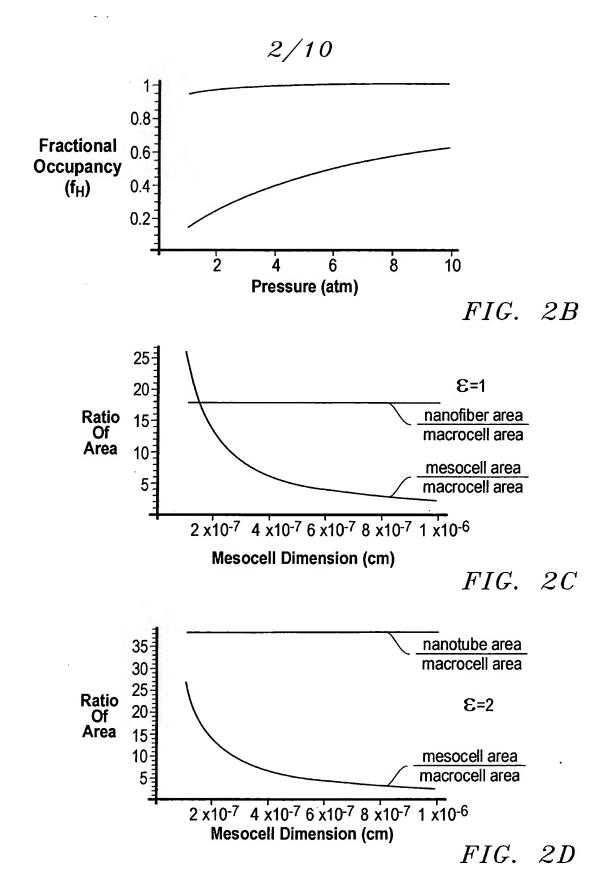


FIG. 2A



Ratio Of Storage Density To Storage Density Without Aerogel/ Nanostructure System

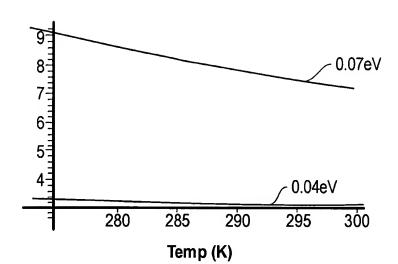


FIG. 2E

Ratio Of
Storage
Density
To Storage
Density Without
Aerogel/
Nanostructure
System

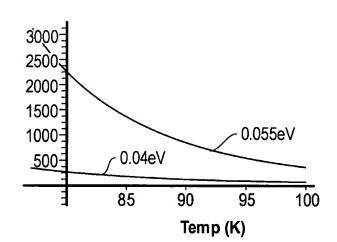


FIG. 2F

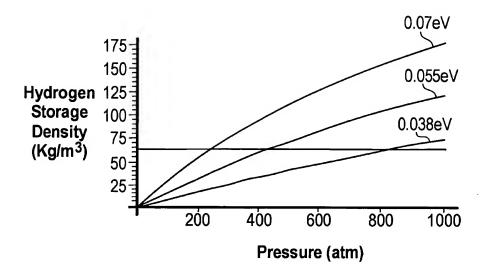


FIG. 2G

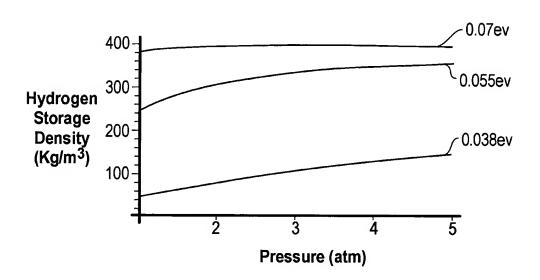


FIG. 2H

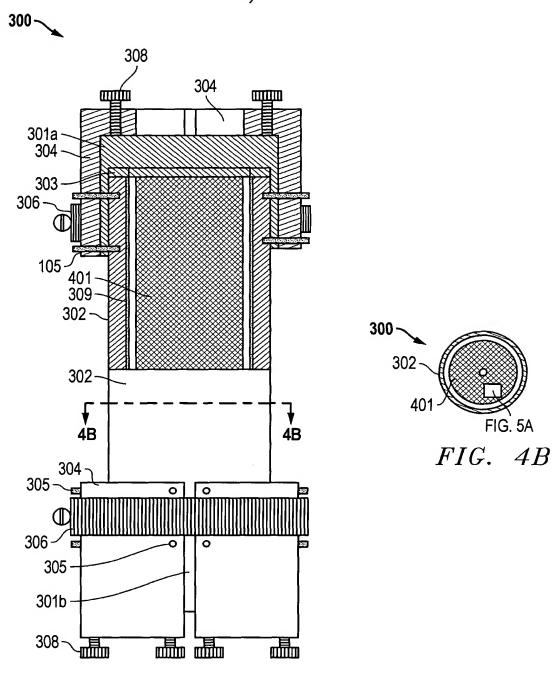


FIG. 5A

FIG. 4A

FIG. 5A

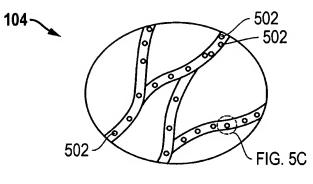


FIG. 5B

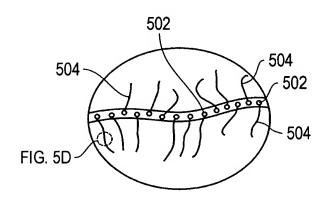


FIG. 5C

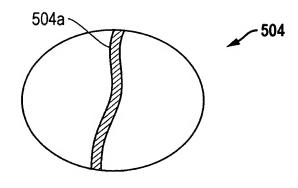


FIG. 5D

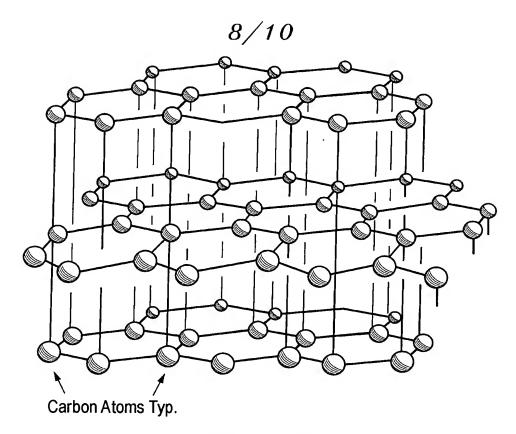
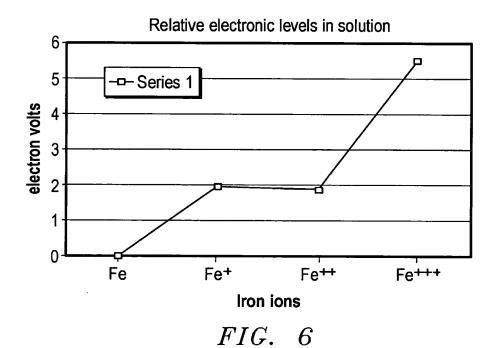
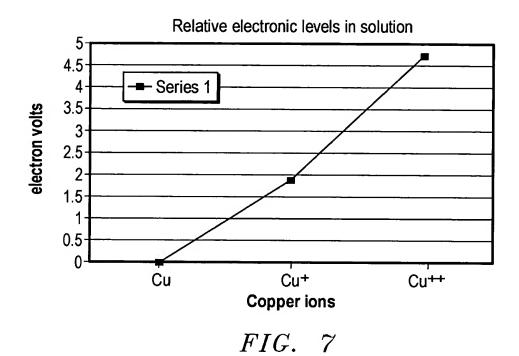
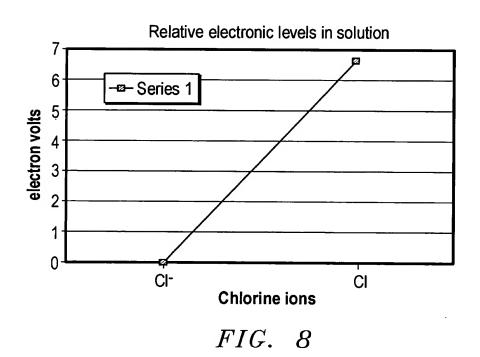


FIG. 5E







## Forming An Aerogel

Drying Said Aerogel To Remove The Liquid Components And Form A Monolith Aerogel

**Curing Said Monolith Aerogel** 

Depositing A Catalyst On The Aerogel Which Bonds To Sites Available On The Aerogel To Form Catalyst Islands; And Growing Nanostructures From Said Catalyst Islands

Gas Loading A Pressure Vessel Including
The Aerogel And Nanostructures At Low
Temperatures And Pressures; And Allowing
The Temperature To Rise To Ambient
Temperature With The Corresponding
Rise In Pressure

FIG. 9